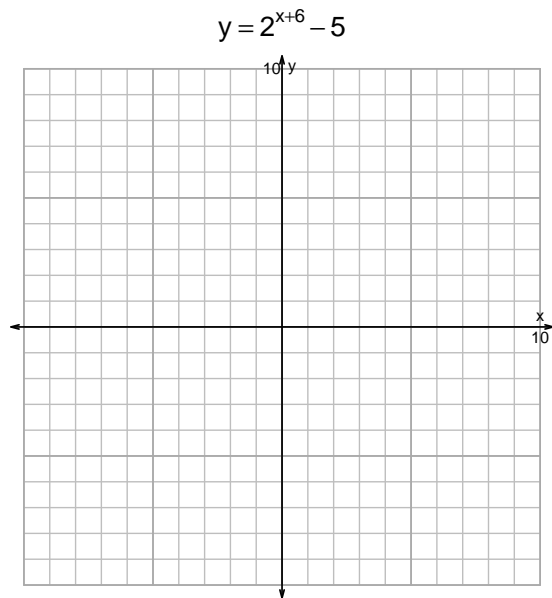
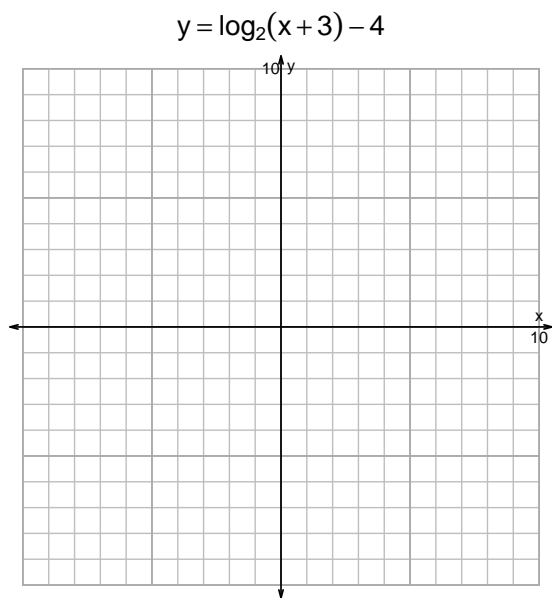


Name: _____

Date: _____

S18QUIZ: EXP LOG (PRACTICE v118)

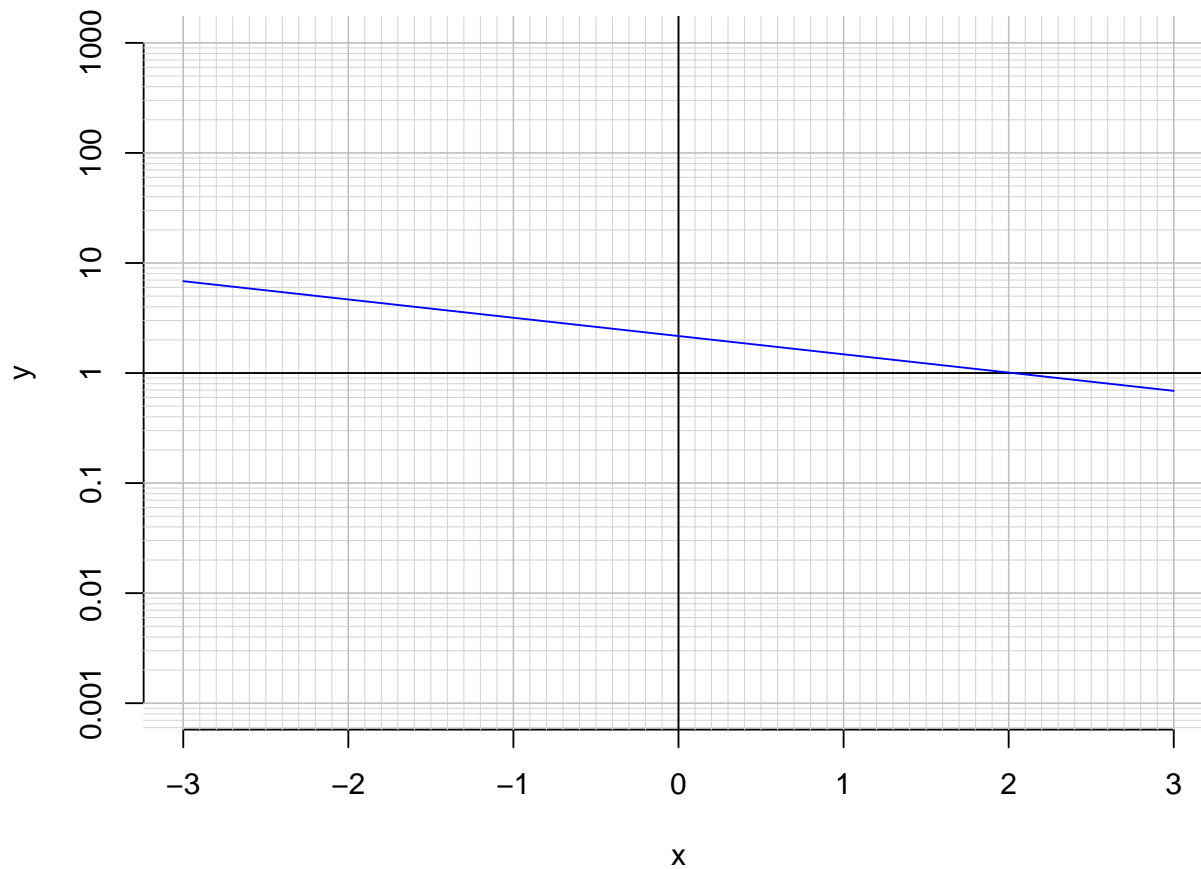
1. Graph $y = \log_2(x + 3) - 4$ and $y = 2^{x+6} - 5$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$23 = \left(\frac{3}{5}\right) \cdot 10^{-4t/7}$$

3. An exponential function $f(x) = 2.17 \cdot e^{-0.382x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(-1.6)$.

- b. Express $f^{-1}(x)$, the inverse of f .

- c. Using the plot above, evaluate $f^{-1}(0.9)$.